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Observations of Occultations by the Moon, 1884–5, and of Eclipses of the IVth Satellite of Jupiter, 1885, made at the Radcliffe Observatory, Oxford.

(*Communicated by E. J. Stone, M.A., F.R.S., Radcliffe Observer.*)

Occultations by the Moon.

Ref.	Day of Obs.	Phenomenon.	Moon's Limb.	Instrument.	Power used.	G.M.T. of Observation. h m s	Observer.
	1884.						
(*a*)	July 3	Disapp. ζ′ Libræ	Dark	Equatorial	125	8 54 6·7	R.
(*b*)	Oct. 12	Reapp. 60 Cancri	,,	,,	110	17 30 14·5	R.
(*c*)	,,	Disapp. α Cancri	Bright	,,	,,	17 59 17·3	R.
(*d*)	Dec. 4	Reapp. λ Geminorum	Dark	,,	125	16 41 28·4	F. B.
	1885.						
(*e*)	Jan. 21	Disapp. B.A.C. 57	,,	,,	,,	5 37 45·3	R.
(*f*)	Feb. 20	Disapp. 38 Arietis	,,	Heliometer	200	7 41 10·9	W.
(*g*)	,,	,, ,,	,,	Equatorial	125	7 41 11·3	R.
(*h*)	,,	,, ,,	,,	Marlborough	80	7 41 11·0	F. B.
(*i*)	March 27	Disapp. B.A.C. 3529	,,	Equatorial	125	10 21 43·6	R.
(*j*)	,,	Disapp. 43 Leonis	,,	,,	,,	11 34 14·4	R.
	April 20	Disapp. λ Geminorum	,,	Dollond	80	10 58 3·8	R.
(*k*)	22	Disapp. B.A.C. 3122	,,	Equatorial	125	9 2 3·6	R.
(*l*)	,,	,, ,,	,,	Heliometer	200	9 2 3·3	F. B.
(*m*)	July 8	Disapp. Aldebaran	Bright (Near Mid-day)	,,	80	23 21 40·9	W.
(*n*)	,,	,, ,,	Bright	Equatorial	45	23 21 41·0	R.

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Ref.	Day of Obs. 1885.	Phenomenon.	Moon's Limb.	Instrument.	Power used.	G.M.T. of Observation. h m s	Observer.
(*o*)	July 20	Disapp. o^2 Libræ	Dark	Equatorial	45	10 55 38·4	R.
(*p*)	22	Disapp. 29 Ophiuchi	,,	,,	,,	10 28 40·1	R.
(*q*)	Sept. 1	Reapp. B.A.C. 1391	,,	Heliometer	80	11 31 58·5	W.
	,,	,, ,,	,,	Marlborough	,,	11 31 60·0	F. B.
	,,	Reapp. 85 Tauri	,,	Heliometer	45	12 3 33·3	W.
(*r*)	19	Disapp. 13 Capricorni	,,	Equatorial	125	8 2 33·5	F. B.
(*s*)	,,	Disapp. 14 Capricorni	,,	,,	95	9 32 13·3	F. B.
(*t*)	21	Disapp. B.A.C. 7774	,,	Heliometer	45	10 6 29·3	W.
(*u*)	,,	,, ,,	,,	Equatorial	125	10 6 29·2	F. B.
(*v*)	Nov. 17	Disapp. B.A.C. 8365	,,	Heliometer	45	10 39 42·5	W.
(*w*)	,,	,, ,,	,,	Equatorial	160	10 39 43·1	R.
(*x*)	,,	,, ,,	,,	Dollond	45	10 39 43·4	F. B.
(*y*)	30	Disapp. *Uranus*	Bright	Equatorial	125	16 58 42·2	F. B.
(*z*)	,,	Reapp. *Uranus*	Dark	Heliometer	110	18 8 4·2	W.
(z_1)	,,	,, ,	,,	Equatorial	125	18 8 6·4	F. B.

Remarks.

(*a*) Image of star faint and diffused at times. Not a satisfactory observation.

For observations of occultations of Struve's faint stars during the Total Eclipse of Moon on 1884, Oct. 4, *vide Monthly Notices*, ol. xlv. No. 1.

(*b*), (*g*), (*n*), (*v*) Instantaneous.

(*c*) Very good image, but did not disappear instantaneously. Observation good.

(*d*), (*f*), (*h*), (*t*), (*u*) Good.

(*e*), (*k*), (*o*), (*p*), (*w*) Good. Instantaneous.

(*i*) Magnitude $= 7\frac{1}{2}$, not 6, as in *N.A.* Faint and diffused.

(*j*) Instantaneous. This star is much brighter than (*i*).

(*l*), (*r*) Star was diffused, but observation fairly good.

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Remarks (continued).

(*m*) Very good. (*q*) Bad image, hazy. Moon low down. (*s*) Diffused. Sky hazy. (*x*) Star diffused.
(*y*) Definition of Moon good; planet diffused; disappeared quickly. Probable error, $1^s.5$.
(*z*) Good definition; may be a little late, perhaps $0^s.5$.
(z_1) May be 1^s or 2^s late, as I was not looking at the exact point of reappearance on the invisible limb of the Moon. The time has been diminished 30^s on the assumption that the wrong end of the chronometer's second-hand was taken.

In converting Oxford Mean Solar Times into Greenwich Mean Solar Times, the following Longitude has been used: $5^m\ 2^s.6$ *W.*

Eclipses of the IVth Satellite of Jupiter.

Ref.	Day of Obs.	Satellite.	Phenomenon.	Instrument.	Power used.	G.M.T. of Observation. h m s	G.M.T. of *N.A.* h m s	Observer.
	1885.							
(*α*)	Feb. 2	IV.	Ecl. Dis. Last seen	Equatorial	125	10 9 16	10 8 28	R.
(*β*)	19	„	Ecl. Re. First suspected	Heliometer	200	8 41 42	8 41 52	W.
	„	„	Ecl. Re. Confirmed	„	„	8 43 42		
(*γ*)	„	„	Ecl. Re. First seen	Equatorial	125	8 43 40	8 41 52	F. B.
(*δ*)	Apr. 27	„	„ „	Heliometer	160	8 34 51	8 35 43	R.
(*ε*)	„	„	Ecl. Re. Suspected	Equatorial	125	8 35 6	8 35 43	F. B.
	„	„	Ecl. Re. Verified	„		8 35 36		

Remarks.

(*α*) Satellite diminished very slowly in brightness.
(*β*) Reappeared, almost touching limb of *Jupiter*. Markings very distinct at times. Rather hazy. (*γ*) Very fair observation.
(*δ*) Observation good, but images slightly diffused. (*ε*) Definition bad at times, but very fair observation.

Observers: W. = Mr. Wickham; R. = Mr. Robinson; F. B. = Mr. Bellamy.
Apertures: Heliometer, 7·5-inch. Equatorial, 7-inch. Dollond, 3·8-inch. Marlborough, 3·3-inch.

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